

WHAT IS CLAIMED IS:

1. An information recording apparatus that comprises information
5 attaching and generating device, [which attaches a track number
information to each track recorded in an information recording medium
and generates group control information to control one or a plurality of
tracks as one group,] said information recording apparatus comprising:

10 a detection device for giving a grouping instruction to said
information attaching and generating device when any kind of change
→ regarding track recording is detected,

wherein said information attaching and generating device
generates the group control information by making the tracks from the
track where recording to said information recording medium is started to
15 at least the track already recorded at the point when said grouping
instruction is received be the same group.

2. The information recording apparatus according to Claim 1,
wherein

20 said detection device gives the grouping instruction to said
information attaching and generating device when an instruction to end ✓
the track recording in said information recording medium is detected, and

said information attaching and generating device generates the
group control information by making the tracks from the track where
25 recording to said information recording medium is started to the track
being recorded at the point where said grouping instruction is received be
the same group.

Single group

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3. The information recording apparatus according to Claim 2,
wherein said information attaching and generating device attaches said
track number information to the tracks sequentially recorded from the
5 track where said recording is started in such a manner that the number
continuously increases.

4. The information recording apparatus according to Claim 1,
wherein
10 said detection device gives the grouping instruction to said
information attaching and generating device when an instruction to pause
the track recording to said information recording medium is detected, and
said information attaching and generating device generates the
group control information by making the tracks from the track where
15 recording to said information recording medium is started to the track
being recorded at the point when said grouping instruction is received be
the same group.

5. The information recording apparatus according to Claim 4,
20 wherein said information attaching and generating device attaches said
track number information to the tracks sequentially recorded from the
track where said recording is started in such a manner that the number
continuously increases.

25 6. The information recording apparatus according to Claim 4,
wherein
said detection device gives the grouping start instruction to said

information attaching and generating device when an instruction to release said pause of the track recording to said information recording medium is detected, and

5 said information attaching and generating device generates the group control information by making the track recorded at the point when said grouping start instruction is received and subsequent tracks be a new group.

10 7. The information recording apparatus according to Claim 5, wherein

 said detection device gives the grouping start instruction to said information attaching and generating device when an instruction to release said pause of the track recording to said information recording medium is detected, and

15 said information attaching and generating device generates the group control information by making the track recorded at the point when said grouping start instruction is received and subsequent tracks be a new group.

20 8. The information recording apparatus according to Claim 1, wherein said detection device gives the grouping instruction to said information attaching and generating device when the instruction to change a track recording method to said information recording medium is detected.

25 9. The information recording device according to Claim 8, wherein said information attaching and generating device generates the group

control information by making the track recorded after said grouping instruction is received be a group different from said track already recorded.

5 10. The information recording apparatus according to Claim 9, wherein said information attaching and generating device attaches said track number information to the tracks sequentially recorded from the track where said recording is started in such a manner that the number continuously increases.

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11. The information recording device according to Claim 1, wherein said detection device gives the grouping instruction to said information attaching and generating device when a change of an operation state of a device in a recording source is detected.

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12. The information recording device according to Claim 10, wherein said information attaching and generating device generates the group control information by making the track recorded after said grouping instruction is received be a group different from said track already recorded.

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13. The information recording apparatus according to Claim 12, wherein said information attaching and generating device attaches said track number information to the tracks sequentially recorded from the track where said recording is started in such a manner that the number continuously increases.

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14. The information recording apparatus according to Claim 1, wherein said detection device gives the grouping instruction to said information attaching and generating device when the a change of a recording mode in said information recording medium is detected.

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15. The information recording apparatus according to Claim 14, wherein said information attaching and generating device generates the group control information by making the track recorded after said grouping instruction is received be a group different from said track already recorded.

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16. The information recording apparatus according to Claim 15, wherein said information attaching and generating device attaches said track number information to the tracks sequentially recorded from the track where said recording is started in such a manner that the number continuously increases.

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17. The information recording apparatus according to Claim 1, wherein said detection device gives the grouping instruction to said information attaching and generating device when the change of a recording source is detected.

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18. The information recording apparatus according to Claim 17, wherein said information attaching and generating device generates the group control information by making the track recorded after said grouping instruction is received be a group different from said track already recorded.

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19. The information recording apparatus according to Claim 18,
wherein said information attaching and generating device attaches said
track number information to the tracks sequentially recorded from the
5 track where said recording is started in such a manner that the number
continuously increases.

20. The information recording apparatus according to Claim 19,
wherein said information attaching and generating device attaches the
10 track number information in such a manner that said track number
information attached to the tracks from the track where said recording is
started to the track already recorded at the point when said grouping
instruction is received and said track number information attached to the
track recorded after said grouping instruction is received are
15 discriminated.

21. The information recording apparatus according to Claim 1,
further comprising:

20 a registration device for registering a group information in
accordance with content of a change detected by said detection device,
wherein said information attaching and generating device further attaches
the group information in accordance with the content of said detected
change to the track that belongs to said same group.

25 22. The information recording apparatus according to Claim 1,
further comprising:

a registration device for reading out information from a recorded

track regarding the track and registering the information as a group information, wherein said information attaching and generating device further attaches said group information regarding the track that belongs to said same group to the track that belongs to said same group.

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23. The information recording apparatus according to Claim 22, wherein said registration device performs registration after changing a part of the group information when it is concluded that information same as the information regarding said read out track is already registered.

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24. The information recording apparatus according to Claim 23, wherein said registration device performs registration by adding a change that a sub-number is given to the group information.